Historic, Archive Document

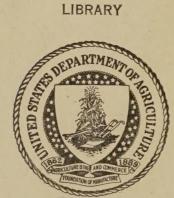
Do not assume content reflects current scientific knowledge, policies, or practices.



1.9 En37F 1938a

Reserve

UNITED STATES DEPARTMENT OF AGRICULTURE LIBRARY



Reserve
BOOK NUMBER 1.9
En37F
1938a
629926

A CLASSIFIED LIST OF FERTILIZER DISTRIBUTING MACHINES AND DEVICES ON THE MARKET - 1936

G.A. Cumings, Agricultural Engineer Compiled by

This partial list of machines and general specifications was taken from such manufacturers' literature and other records as could be obtained by the Bureau of Agricultural Engineering, United States Department of Agriculture, Esshington, D.C.

(a) indicates that the specifications were not given in the records on file: Hotes

The mention of specific machines and manufacturers implies no particular endorsement by the Department of Agriculture as to the price and quality of the equipment listed.

The address of each manufacturer listed is given on page Notes

Fertilizer distributors combined with other machines (continued).

12. Rigid-frame two-wheel, riding type planters and listers - horse drawn
13. Two-row addistable runner frame planters (corn belt type) - horse drawn
14. Tractor planting equipment
15. Beet and bean drills
16. Prato planters
17. Grain drills
18. Transplanters
19. Oultivators and harrows
20. Disk harrows
21. Flows
22. Manure spreaders
23. Watering and irrigation systems GENERAL CLASSES OF FERTILIZER DISTRIBUTING MACHINES LISTED --

Distributing machines for fertilizer only:

1. Wheellessdistributing equipment - carried and hand perated

2. Broadcast distributors, wheel type - pushed by hand

3. Broadcast distributors and drills, wheel type - borse drawn

4. Broadcast distributors and drills wheel type - tractor and truck drawn 3. Broadcast distributors and drills wheely. Broadcast distributors and drills wheely. Broadcast distributors, endgate type 6. Evo distributors - pushed by hand 7. One-row distributors - horse drawn 8. Two-row distributors 9. Three or more-row distributors

Fertilizer distributors combined with other machines as follows:

10. Small vegetable seeders 11. One-row walking type planters - one horse

			1. WHERIT.	1. WHERLIESS DISTRIBUTING EQUIPMENT CARRIED AND HAND OPERATED	CARRIED AND	HAND OPERATED	
Manufacturer	Trade name or catalog No.	General type of machine	Sizm or area covered	General type of fertiliser dispenser	Rates in Lbs/A	Grops or conditions intended for	Placement of the fertilizer in the soil
Acer and Whedon, Inc. Acmeline Mfg. Co.	A & W Ringer Acme 308	Vertical cylinder Eand corn planter Attach. 1 hill Bhoket true		Cone valve, gravity feed	1 to 4 ozs/hill Plants or hills (a) Corn, etc	Plents or hills Corn, etc	Ring 6" Dia. on surface around hill Spot at side of hill level with seed
Bradley, David, Mrg. Works	No. 6257	Hand corn planter Attach.	1 hill	(8)	(8)	Corn. etc	Shot in hill
Browning and Son	Circle, A, B, C	Container, hand carried	1 hill	Bell plunger & valve	Max. \$ 1b/h111	Plants or hills	Ring 8" Dis on surface around plant
do	Circle E	Container, hand carried		Bell plunger & valve	Max. \$ 1b/h111	Plants or hills	Band 38 by 12" on surface at side of plant
Cyclone Seeder Co.	Noc-out	Shoulder sack with tube	1 spot	Knocker	(a)	Gardens, etc.	Spot on surface
do	Dual purpose	Broadcaster, centrifugal		Gravity & plate-fan scatterer 100 to 300	100 to 300	Granular fertiliser	Broadcast on surface
Eagle Machine Co.	Gean	Hand corn planter Attach.	1 hill	(a) (Scatterer (a)	(a)	Corn, etc.	Spot in hill
Goodell Co.	Cahoon	Broadcaster, centrifugal	(a)	Gravity, Vertical rotating)	(a)	Granular fertilizer	Broadcast on surface
Meronek Mg. Co.	Perfection	Vertical cylinder	1 h111	Plunger	50 to 350	Plants or hills	Ring on surface around hill
Plant Food Appliance Co.	Little Wonder	Jabber type	1 hill	(8)	80 to 480	Plants or hills	Spot at each side of row at the hill
Waterman, Adolph, C.	Rechony	Vertical cylinder		Oscillating cell plate	(a)	Plants or hills	Ring 11" Dia. on surface around hill

AUG 25 1947

2. BROADCAST DISTR BUTCRS, WHERE, TYPE -- PUSHED BY HAND

	General type of machine	Size or area	General type of.	Rate in	Grops or conditions	Placement of the fertilizer in the soil
		covered		1bs/A	inten ed for	
Planet Jr 220	Wheelbarrow	12 - 22#	Knocker	200 to 2000	Row crops	Edceat or bend on surface through tubes adf.
Planet Jr 235	Scatter att. on 220 Distr	. 36"	Knocker	200 to 2000	Golf greens, etc.	Edcast on surface
+	Cart	140	Agitator- adj. openings	(a)	Lawns, etc.	Edcast on surface
	Hopper plans only	As built	Gravity- adj. openings	200 to 500	Granular fort.	Edcast or bands on surface, control openings
1510 & 0157	Cart	18 & 30"	Botating blades	(8)	Lawns etc	Bdcast on surface
	Cart	16"	Revolving agitator	(e)	Lewns, etc.	Bdcast on surface
	Cart	30"	Wabble screw Agitator	(9)	Lawns, etc.	Bdcast on surface
	Cart	36"	(a)	(a)	Lawns. tc.	Bdeag on surface
Truckers F. 52	Wheelbarrow	Max. 36"	Vibrator	(8)	Row crops	Edcast or band on surface thru adf. tubes
Eastern states	Wheelbarrow	10 ft.	Doubl chain	(8)	Gen'1	Edcast on surface
McWhorter 21	Wheel barrow	1 row width	Endless belt	0 to 2500	Gen'1	Edcast or band on surface thru 4 adi, tubes
	Cart	17 to 30"	(a)		Lawns. otc.	Bdcsst on surface
	Cart	22 & 34"	(a)	(a)		Bdcsat on surface
Moe's 500	Oart	21*	Spiral agitator		Tawns	Riceat antiaca
Moe's 505	Cart	16*	Spiral agitator		Tarns, etc.	00
	Cart, centrifugal	12 ft.	Rotating agitator	(4)		Roca t on amplace
	Cart	16#	Rotating agitator		Tarma, etc.	Richart on muriace
(9	Cart	16,24,36"	Rotating agitator	(8)	Lawns. etc.	Bdcast on surface
,	Wheelbarrow	Max 24"	Reel agitator	100 to 3000	Row Grops	Edcast or band on surface thru adf. tubes
	Cart	36"	Triple roll agitator	(8)	Lawns otc.	
Hoffman (three)	Cart	14,18,30"	Reel agitato	120 to 5800	Lawns. etc.	Bdcagt on surface
(la)	***	2 to 6 ft.	Reel agitator	wide range	Parks etc.	Bdcast on surface
Sacco (two)	Cart	18 & 30"	Rotating agitator	(e)	Lawns, etc.	Bdcast on surface
1	Cart	20	Triple orlinder	(a)	Lawns, otc.	Bdcast on surf ce
	Car	ाम 16 क 24म	(4)	(0)	Towns of	The state of the s
	Cart	14. 16 & 30"		6 (4	Towns ofte.	Dicest on surrect
(Aumatta(aix)	Care	14 to 768		5	Course, occ.	הרניפה מה פתודמנם
	The barrow	20#		8 6	Lewns etc.	Edcast on surface
210	Wheel barrow	6 24.			Clem 1	bacast or bands on surface (tubes removable)
106	Seel errow	10 ft.		306 44 03		Duckst on suriace
Thompson 112.10	The lbarrow	1464	Vibrator	List Som	Con ses etc.	packat on surface
	Cart	6 50.	Vibrator	HATE TO PLANO	Parks atc.	Edgest on surface
0	Meelbarrow	1 row wi th	_	Wide range	Ros crops	Riceat on benda on stanface the cast

	0			-			1			-			1			1		tribee	00000			tubes			-
	Bdcast or bands n surface	Bdeast or bands on surface	Bdcast on surface	Bdcast on surface	Rands in furrows 7 or 128 apart	Edgat on aurisca	Bdcast on surface	Bdcast on aurface	Bdcsat or bands on surface	Bdcast on surface	Bdcaa on anriace	Bicast on surface	Bdcast on surface	Bdcast on surface	Bdcast in bands in furrows 7s spart	Bdcas on surface	Bdcast on surface	Bdcast or bands on surface then add tubes	Bdcast on surface	Bdcast on surface	Bdcast on surface	Edoast or bands on surface thru adi. tubes	Bdeast on surface	Bdcast on surface	Bdcast on surface
	General	General	Gen'1, 11me	Gen'l, lime	Onlone. Yez. grops	General	General	General	General	General	General	168 to 13000 General. 11me	Wide range General, line	General	Orange grove	General	General ime	Jeneral	Wide range General, lime	General	Gen'1, phosphate	General	General	General, lime & F.	General
FE HORSE DRA	250 Min.	250 Min.	200 to 4000 Gen'1. 11me	(e)	(e)	100 to 6000 General	500 to 8000	500 to 8000	Tide range	(a)	10 to 2350	168 to 13000	Wide range	100 to 5000	(a)	15 to 5400	300 to 6000	10 to 2000	Wide range	200 to 5000	(a)	(a)	200 to 8000	48 to 4950	
Se produced utstatedions and Dathies, when its House Dans	Paddle agitator	Paddle agitator	Botating agitator	Rotating wing agitator	Star wheel with adj gate	Finger wheel	Reel agitator	Reel agita	Rotating agitator	Rotating agitator	Reciprocating feed plates	Rotating wing agitator			(a)	Finger wheel	Rotating wing agitator	Finger wheel		Rel agitator	Rotating WYW agitator	Vibrating pan	Rotating wing agitator	Star wheel with adj. gate	6 and 10 ft. Rotating agitator
- DECLETOR OF	g ft.	6 ft.	5 to 10 ft.	of ft.	6,14,20 tube	84 ft.	6 ft.	& ft.	25 to 8 ft.	12 ft.	7 and 9 ft.	8 ft.	6 an 8 ft.	54 and 8 ft.	4 and 54 ft.	9 ft.	of ft.	6 to 12 tube	6 and 8 ft.	2 to 10 ft	8 and 10 ft.	1 to 8 ft.	& ft.	& It.	6 and 10 ft.
		Cart 1-horse	Cart 2-horse		Drill 2-horse	Cart 2-horse	Cart 1-horse	Cart 2-hose	Cart 1 and 2-horse	Cart, centrifugal	Cart 1 and 2-horse	Cart 2 hors	Cart 1 and -ho se	Cart 2-borse	Cart horse & tractor		Cart 2-horse	Cart 2-horse	Cart 2-horse	rt 1 and 2-horse	Cart 2-horse	rt 1-horse	Cart, horse, tractor, truck	Cart, horse, tractor, truck	Cart 1 and 2-horse
	1133	1154	Caledonia Ce	Crown Cr	Peoria Dr	New Peorts Ca			Universal Ca		McC-Deering Ca	McC Deering Ca	I-Acme 6,8,10 Ca	Nonparet1 Ca			Superior 16 Ca		Ontario H Ca	So-rite (Series) Cart	Self Ca	Todd,0,7,8,15	Van Brunt H	Van Brunt A	Multnomeh Ca.
	Bradley, David, Mfg. Wks	do op	Caledonia Bean Harv. Wks	Crown Mfg. Co.	Farm Tools, Inc.	do	Hampshire Implement Co.	do	Haines, W. D.	Holden Co.	International Harv. Co.	do	Leroy Plow Co.	Obio Cultivator Co.	do	Oliver Farm Equip Co.	29	Ontario Drill Co.	op Op	Pender Mg. & Supply Co.	Self Mrg. Co.	Todd Co., Inc	Van Brunt Mfg. Co (Deere)	do	Wade, R. M., Co.

Page 3 Placement of the fertilizer in the soil	Educat on surface Educat on surface Educat or bands on surface Educat on surface		Educat on surface Educat or bands on surface thru selected Educat on surface		Band or bdcast on surface thru adj. tubes Band or bdcast on surface thru adj. tubes In two bands adj. 0 to 6" apart Band or bdcast on surface thru adj. tubes Band or bdcast on surface, thru adj. tubes Band or bdcast on surface.	Band or bdcast on surface thru adj. tubes.		6" bend in open furrow thru adj. tubes 4" bend in abovel furrow 0 to 8" deep 4" bend in abovel furrow 0 to 8" deep 1" bend in abovel furrow 0 to 8" deep	Band on surface or in open furrow and covered Band on surface each side of row (for sugar cane) Band in showel furrow, depth add,	head in above furrow and covered Band in above furrow and covered Band in above furrow and covered head in above furrow and covered	mend in furors inition, depth add. Band in abovel furrow, depth add. Band in abovel furrow, depth add.	bend in open furrow and in open furrow and cover in shovel furrow, depth		d in showel furrow, depth adj. te band in open furrow and covered id in open furrow or Bdcast Max, 36" on surface	on surface and bedded on in shovel furrow, depth add. bands 8" apart in furrows and bedde
TRUCK DRAWN Crops or conditions for which intended	Lime materials Lime materials General General, lime General, lime Farks, etc. General, lime Farks, etc.		General Gen'l, Granular F. General General General General, line General, line General, line General, line			Вот сторы	_	Row crops Row crops Row crops	Row crops Bar Row crops Bar Row crops Bar	crops	crops	crops crops			Row crops Row crops
Rates in 1bs/A			500 to 800 (a) (b) (a) (b) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d		200 to 2000 (a) (a) (b) 0 to 2500 1100 to 3000 (a)	Wide range		200 to 2000 (a)				(a) (a)	E E E	(a) Max. 2500 (a)	Max. 3000 30 to 540 Wide range
DISTRIBUTORS AND DRILLS, WHERE TYPE sa Genera type of free damener	erers tes T Tan scatterers -fan scatterers r feed gate	DISTRIBUTORS, ENDOATE TYPE	Endiese chain, & 2 plate-fan scatterens Gravity- adjustable openings Agitator & 2 plate-fan scatterers Form & 2 plate-fan scatterers (a), & 2 plate-fan scatterers Augur & 2 plate-fan scatterers Augur & 1 plate-fan scatterers (a) Augur & 2 plate-fan scatterers Screw & 2 plate-fan scatterers (b) The scatterers (c) The scatterers (d) The scatterers (e) The scatterers (e) The scatterers (f) The scatterers (g) The	DISTRIBUTORS - FUSHED BY HAND	Enocker Vibrator Botating plate & descending scraper Endless belt Reel agitator (a)	Fibrating pan	DISTRIBUTORS - HORSE DRAWN	horse Knocker horse Rotating agitator horse Knocker hopper Whreting commending	Wheting open-end Rotating plate Rotating agitator					Rotating Knocker((horse Rotating dished plate horse Rotating cyl top delivery horse Wirating pan
EROADCAST DIS	bout 20 ft 8 ft 8 9 ft 5 ft 5 ft 6 8 9 ft 7 ft 6 ft 8 ft	BROADCAST DI	6 to 25 ft. 4a built (a) 20 ft. 20 ft. 15 ft. (a) 16 ft.	ROW DISTRIB	l row l row l row l row l row	1 row	ONE-ROW DISTR	l front wheel, I ho l rear wheel, I ho l rear wheel, I ho	I N N T F			-	4 ~ ~		
h.	Gart trailer for truck Gart, trailer for truck Gart, tractor Gart trailer, centrifugal Trailer entrifugal Gart, tru k or tractor Gart, tru k or tractor Gart, horse, tractor, truck Gart, horse, tractor, truck Gart, horse, tractor, truck Gart, horse, tractor, truck	ņ	Endgate, centrifugal Hoppe ples only Trailer centrifugal Endgate, centrifugal Trailer, centrifugal Trailer, centrifugal	9	Theelbarrow, hand & horse Two-wheel & horse Two-wheel Two-wheelbarrow Theelbarrow Theelbarrow	arrow	÷ /	Walking, 1 fro Walking, 1 res Walking, 1 res	Walking, Riding, Walking,	24 Walking, Walking, Walking,	Walking, 1 Walking, 1 Walking, 1	4 -4 -4	Walking, 1	52	Walking, bedding disks Walking, 1 rear wheel, Walking, 1 front wheel
Trade name or General	4		A-C Endgate, call 1159 Trailer of 1159 Trailer of 1159 Endgate, call for the call of the c		Flanet Jr 220 Theelbarrow, Truckers F.52 Wheelbarrow, Iron Age 323 Two-wheel McMnorter 21 Wheelbarrow So-rite 3HM Theelbarrow Thompson 108 Wheelbarrow			Flanet Jr 220 Fet Guano Enock-out B, Enock-out K7	Vabrator 2 Sugariand Blount 0 & 8	11,12,13,14,21,22,23,& Comet No. 15 No. 30 Seav	#21 Bop.fom R50 Pl. Cole 20 Cole 21			accurate measure No. 48 Gircle knock 50 Truckers friend	Cole 60 Cole 66 (a)
Manufacturer	Burch Corporation Greenville Mrg. Works Haines, W.D. International Harv Co. To do do la Steel & Wire Co. Portable Elevator Mrg. Co Thompson, O.E., & Sons Van Brunt Mrg. Co(Deere)		A-C Menufacturing Co. American Granmid Co. Bradley. Barid Mig. Works do. Farm Tools. Inc. Eolden Co. do. International Barv. Co. New Way Spreader Co. Fortable Elevator Mig. Co Red Gross Wig. Co.		Allen S.L. & Co., Inc. Cole Mrg. Co. Ellis-Esystone Agri. Wrs. Farquinar, A. B., Co., Ltd. Pender Mrg. & Supply Co. Thompson, O. E., & Sons			Allen, S.L. & Co. Inc. Avery, B.T. & Sons Co. do (Knocker, Knocder)	low Works	Sex,	Case, J.I., Co. Cole Mrg Co.	0 P P P P P P P P P P P P P P P P P P P			අ අ අ අ අ අ අ අ අ අ අ අ අ අ අ අ අ අ අ

7. ONE-ROW DISTRIBIT

		Trade name or catalog No.	General			General type of	Rates in	Crops	the
						POPPARON POPPARON	1bs/A		
Section 100 Stating		Double Streem	_		+	4 6 6 7 8			Designation of the second seco
Richard 17 Riting 2 Rubel 2 Ruber 2 Ruber 2 Ruber 2 Ruber 2 Ruber 2 Ruber 3 Ruber 4 Ruber 4 Ruber 4 Ruber 4 Ruber 4 Ruber 4 Ruber 5		Eureka 140		wheel.	horse	inocker, double drive	4	Bow	Two bands 5" apart deposited behind 14" sweep
Figure 1 Michiga Profess Darce Bacing and September 100 to 1700 Bacing		Eureka 171		wheel,	horse	Tin scree	3 2	Bow Bow	
Marie Mari		Iron Age 471		wheel,	horse	Indless belt		Row	
Gaint 2 Milling, Troug wheel, Darie Emerging Emergency Emergen		Gentt 1			_	Endles belt	2	Row Crops	r thru adj
Court if Court C	qp	Gent 2	1	front wheel. 1	-	lotating wing agitator		Row Chone	
Military	do do	Gentt 3	Walking, 1	-		Inocker hopper		Row Crops	
Universal	do	Gantt 6	Walking.	front wheel,	+	lorating open-end pan	100 40 2000	BOT CTOPS	Band in sho el furrow, dep adj.
		Universal			-	lotating agitator	Wide range	Row Crops	Band in open furrow o bdcs t on surface
Mainter Carting Inches Inches Inches Monthly Egitter 90 to 900 Bow Crops	Harriman Mrs. Co.	Ferrection	Walking,		+	hocker	(8)	Crops	an cov red
	Harrington Mfg. Co	Rosnoke			_	acting agitator	20 20 200	Grops	s r mixed with soil in
Mailler Mailler Mailler Front wheel Dorge Rotting gaths (a) Mailler Front wheel Dorge Rotting gaths (a) Mailler Front wheel Dorge Rotting gaths (a) Mailler Front wheel Dorge Rotting gath (a) Rotting gath (b) (a) Mailler (b) Mailler (b) Mailler (c)		McC-Deering 2	Walking, 1			Thrating pan	100 to 2000	BOW	
Sality Compared Compared Date Date Date Salits Compared Com		McC-Deering 10	Walking,		_		100 to 2000	Row Crops	fn
Real Pool		Shaker &	(a)		_		a (Crops	Band in shovel furrow, depth adj.
Pass & Dandy R. Ming. I cont wheel Date R. Ming. I con	do	Kelly 711	Welking		-	- 18	8	Grops	(a) Rand in shows furrow danth adi
Religion	do	Boss & Dandy	Wa king, 1		-	(8)	(e)	Crops	Bend in furrow (Fert. & Seed Hoppers interchangeable
Checker Walting, Test wides Dorse D	AIR FION CO.	Fearson 1&2, Ga.	Cracker 2 d	5 and Ga. Boy					
Fig. 24 Fig. 25 Fig. 25 Fig. 25 Fig. 25 Fig. 25	do	da. Gracker 1	1		-	thocker hopper	(8)		Band in shovel furrow, d pth adj.
King 24	9	King Vibrator				Trating pan	(a) (a)	Grope	0
E. Big Boy Wilting front wheel horse (a) Rotting pan Rotting (a) Rotting Rot	do	King 24				lotating pan	(6)	Crops	~
Hillier	do	KP Big Boy		-		(8)	(8)	Crops	Band in open furrow and covered
No. 2	Lill ston implement co.					g ben	(8)	Crops	Band in furrow 2 to 10" deep
No. 2	A., M.S.	Heg1.4,		-	-	lotating ng agitator	(8)	Grops	Band in open furrow and covered
No. 4	9 6	N ON			_	totating wing agitator	(a)	Crops	in open furrow, mixed, and covered
No. 4 Ralting, rear wheel, horse Rotating wing gatator (a) Row Grops Ros. 5 Ralting, from wheel, horse Wibrating pan (a) Row Grops Ros. 5 Ralting, from wheel, horse Wibrating pan (a) Row Grops Ros. 10 Ralting, from wheel, horse Rotating gatator 300 to 2700 Row Grops So-rich Ralting, from wheel, horse Rotating gatator 300 to 2700 Row Grops So-rich Ralting, from wheel, horse Rotating gatator 300 to 2700 Row Grops So-rich Ralting, from wheel, horse Rotating gatator 300 to 2700 Row Grops Ralting, rear wheel, horse Rotating gatator 300 to 400 Row Grops Ralting, rear wheel, horse Rotating gatator 300 to 400 Row Grops Gamp Ralting, rear wheel, horse Rotating pan with plow Rotating, Ralting, from wheel, horse Rotating pan with plow Rotating, Ralting, from wheel, horse Rotating pan with plow Rotating, Ralting, from wheel, horse Rotating pan (a) Row Grops Rotating, from wheel, horse Rotating pan (a) Row Grops Rotating, from wheel, horse Wibrating pan (a) Row Grops Rotating, from wheel, horse Wibrating pan (a) Row Grops Rotating, from wheel, horse Wibrating pan (a) Row Grops Rotating, from wheel, horse Wibrating pan (a) Row Grops Rotating, from wheel, horse Wibrating pan (a) Row Grops Rotating, from wheel, horse Wibrating pan (a) Rotating pan R	do do	No. 24		-	-	totating wing agitator	86	Crops	padded
No. 5 Falking,	do	No. 4		-	-	lotating wing agitator	10 00	Crops	Band in shorel former denth add
No. 6	do			1 3	-	Thrating pan	(a)	Crop	Band in open furrow
Mo. 0 Malking, Iron wheel Norse Wibrating pan 100 to 2700 Bow Grope 100 to 100 to 100 to 2700 Bow Grope 100 to 100 to 100 to 2700 Bow Grope 100 to 100 to 100 to 2700 Bow Grope 100 to 100 to 100 to 2700 Bow Grope 100 to 100 to 100 to 2700 Bow Grope 100 to 100 to 100 to 2700 Bow Grope 100 to 10	do	٥		-	-	The ating pan	(a)	Crops	Band in open furrow and covered
Superior 3	000					Thrating pan		Row Crops	Band in open furrow and bedded on
Superior 3 Waiking, 1 iro wheel, 1 horse Nibrating pan 200 to 200 ho 200 Bow Grops Nictory, Mascese, Columbus and Seay 1 horse Nibrating wing agitator 300 to 4000 Bow Grops Gamp Waiking, 1 rear wheel, 1 horse Nibrating open-end pan 300 to 4000 Bow Grops Gamp Waiking, 1 rear wheel, 1 horse Nibrating open-end pan 300 to 4000 300 Grops 300 Gart, 1 horse 300 Grops 300 Gart, 1 horse 300 Grops 300 Gart, 1 horse 300 Gart, 300 Gart, 300 Gart, 300	do		Walking, 1	wheel,		totating agitator	2 2	Row Grops	Either 1 or 2 han e in non furrow and bedded on
So-rite Welking, cart, Lorse Rotating wing agitator 300 to 4000 Row Grops Victory, Muscogee, Columbus and Seay Lorse Rocker hopper (a) Row Grops Company Welking, 1 rear wheel, 1 horse Vibrating open-end pan (a) Row Grops Row	Oliver Farm Equip. Sales Co.	Superior 3	Walking. 1	wheel.	-	Thrating pan	200 to 2400	Row Crops	H CALLAL
Walting Walting I rear wheel, lorse Rotating agitator (a) Row Grops Railting, rear wheel, lorse Rotating agitator (a) Row Grops Railting, rear wheel, lorse Wibrating open-end pan (a) Row Grops Railting, I front wheel, lorse Rotating plate with plow (a) Row Grops Railting, I front wheel, lorse Wibrating pan (a) Row Grops Railting, I front wheel, lorse Wibrating pan (a) Row Grops Railting, I front wheel, lorse Wibrating pan (a) Row Grops Railting, I front wheel, lorse Wibrating pan (a) Row Grops Railting, I front wheel, lorse Wibrating pan (a) Row Grops Railting, I front wheel, lorse Wibrating pan (a) Row Grops Railting, I front wheel, lorse Wibrating pan (a) Row Grops Railting, I front wheel, lorse Wibrating pan (a) Row Grops Railting, I front wheel, lorse Rotating pan (a) Row Grops Railting, I front wheel, lorse Rotating agitator Rou Grops Row	Pender Mfg & Suppl Co.	So-rite	Walking, c		-	lotating wing agitator	300 to 4000	Row Crops	Band 6 to 10" wide in open furrow
	Sou hern Plow Co (Columbus, Ge)	Victory, Muscoge	e, Columbus			,			
Mailting I rear wheel, horse Rocker Ro	- 9	Chample.	Walking,	rear wheel,	-	Inocker hopper	8	Crops	Band in showel furrow, depth adj.
Mailent Walking, front wheel, horse Rocker Ro	900	Camp	Walking, 1	rear wheel, 1		Thrating open-end pen	8 (8)	Crops	Band in shovel furrow, depth sal.
	do	Giant			borse	Thocker	(a)	Crops	Band in open furrow and covered
Mailler Cart, 2 horse Rotting pan Cart, 2 horse Rotting pan Rotting pa	Southern Plow Co (Dallas, Tex)	Ledbetter 364			horse	totating pan with plow	(8)	Crops	Band in shoe furrow, (Fort. & Seed hoppers interchangeable
Fayne Walking, cart, Lorse Tibrating pan (a) Row Grops Band in open	Syracuse Chilled Plow Co(Deere)	Hoover			horse	dotating plate with deflector	3	Grops	
Walking, front wheel, horse Wibrating pan (a) Row Grops Band 7" wide	do	Todd 5	Walking, c		-	Tibrating pan	(8)	Row Grops	Bend in open furrow
Rayerite Walking, 1 front wheel, 1 horse Wibrating pan (a) Row Grops Band in open	Wayne Agricultural Works, Inc.	Жаупе	Walking, 1	nt wheel,	-	Thrating pan	(a)	Crops	7" wide in open
Miller Cart, Encien 172 Cart, Car	White's, S.R., Sons, Inc.	Pavorite T P			_	Norating pan Obrating pan	® @	Row Crops	Band in open furrow
Miller Cart, 2 horse Pating vertical spider 50 to 500 Widely spaced rows Band on similar	of the state of th				-		-		the trace made are second
Miller Cart, 2 horse Pating vertical spider 50 to 500 Fidely spaced rows Pand on simple Miller 2 horse Pan screen 200 to 4500 Fidely spaced rows Rither 2 Miller 2 horse Pan screen 200 to 4500 Midely spaced rows Rither 2 Miller 2 horse Miller Miller Miller 2 horse Miller M			1		\		-	,	
Miller Cart, C					\				
Miller Cart, C				80	WO - ROW	DISTRIBUTORS /	1		
Miller Cart, 2 horse Rotating vertical spider 50 to 500 Ridely spaced rows Rither 2 Norse Ends of Rotating Part Cart, 2 horse or tractor Rotating Part Cart (A) Row crops Row crops Rotating Part Cart (A) Row crops Rotating Part Cart Rotating Part Cart (A) Row crops Row crops Rotating Part Cart (A) Row crops Row crops Rotating Part Cart (A) Row crops Row crops Rotating Part Cart (A) Rotating Part Ca					1		+		
	American Granamid Co.	Miller	Cart,	2 horse	Botat	ertical spider		dely spaced r	_
Minister Lors, Orst., land 2 horse Rotating agitator E00 to 5000 Row crops Band or Boating pan & add. plows 0 to 5000 Row crops Band or Boating pan & add. plows 0 to 5000 Row crops Band and Rower Cort. Acres Real agitator E00 to 5000 Row crops Band and Rower Cort. Acres Rotating plate with deflector 75 to 3400 Row crops Bands on Rower Cort. I horse or tractor Rotating plate with deflector 75 to 3400 Row crops. Rotating plate with deflector 75 to 3400 Row crops. Rotating plate with deflector 75 to 3400 Row crops. Rotating plate with deflector 75 to 3400 Row crops. Rotating plate with deflector 75 to 3400 Row crops.	Eureka Mower Co.	Eureles 172	Cart.	2 horse	Twin	104		dely spe ed r	Either 2 bands or mixed with soil in row
Bedder F-1 Tractor mounted Rotating pan & adj. plows 0 to 3000 Row crops Band and So-rite Cart, horse or tractor Rotating plate with deflector 75 to 3400 Row crops. Pands on Royal Cart, horse or tractor Rotating plate with deflector 75 to 3400 Row crops. Probability of Cart, horse or tractor 1 horse 1 horse und 1 horse 1 hor	A.D.	Universal		And 2 horse	Rotat	1	+	w crops	rws thru adj.
So-rite Cart, horse or tractor Rotating plate with deflector 75 to 3400 Row crops. Reads on Rower Cart, horse or tractor Rotating plate with deflector 75 to 3400 Row crops, potatoes Two bands from front Rotating to the Rotating Plate with deflector (a) Row crops, potatoes Two bands from the Rotating Rotation	International Barvester Co.	Bedder F-1	or m	unted	Rotat			w crops	Band and bedded on
Hoover Cart, norse or tractor increases in order of 15 to 5400 for crops, potatoes into band find g Cart.	Pender Mg. & Supply Co.	So-rite	- 1	1 horse	Reel	-	-	W crops	Bends on
TOTAL CO. LANGE	Syracuse Chilled Plow Co(Deere)	Though K		se or tractor	71 hrs		_	w crops, potat	Panda 4m

Page 5	tions Placement of the fertilizer in the soil ndef		bedded Band and bedded on Bands on surface, thru add, tubes Bands on surface, tubes spaced as desired	Bands on surface, tubes spaced as desired			crops Band 5" to each side or in furrow with crops Band under seed	Vegetable crops hand sul, from 0 to 7 to each side of from Vegetable crops Band either to each side or in row Vegetable crops Hill or drill,0 to 2.5" to each side, or in row Vegetable crops (a)		S - ONE HORSE	Mixed with soil above seed, deposited-front of seed shoe Spot 2.5% behind seed hill in same furrow	Drilled, (a) The furner above seed Drilled in furner above seed Drilled in furner disective observed	Drilled in furrow directly above seed Drilled in furrow with seed Drilled in furrow with seed	Drilled, band each side near soil surface Trilled, in row Trilled, (a)	Drilled, (a) Drilled, (a) Drilled, (a)	Drilled, (a) Band 2.5st to one side of row - depth adjustable 1811ed or drilled, band at each side of row on seed level	band 1" wide, 1 to 2" directly under seed band 2" wide, 1" to each side, 2" above se	0 0	Drilled, in furrow with seed Drilled, bard under seed Prilled, bend under seed		Drilled, (a) Drilled, either under or in furrow with seed Drilled, band wader seed Drilled, band ## to each side, ## above seed level	band und in furro in furro (a)	00
*	Rates in Crops or Conditions Lbs/A for which intended	range Row crops	Row crops Bow crops	-	/	LIZER DISTRIBUTORS	to 1000	(a) Vegetable 80 to 2500 Vegetable (a) Vegetable		COMBINED WITH FERTILIZER DISTRIBUTORS - ONE HORSE	corn, etc.	n, corn, etc.	n, corn, etc.		. 10		, corn, etc. beans, etc.	corn, etc.	eans, etc.	beans, etc.	corn, etc.	corn, etc.	beans, etc. beans, etc.
TORS	dispenser			(a)	/	COMBINED WITH FERTILIZER		Aprelia feed wheel		1	(a) Cotton,		(a) Cott			(a) (d)	50 to 250 50 to 200			to 350 to 350	88	to 690	50 to 600 25 to 700 50 to 500
OR MORE-ROW DISTRIBUTIONS	Size, No. General type of of rows fertilizer disp	c more Endless belt & more Rotating agita	A more Finger wheel A more Reel egitator	MOFe	/	VEGETABLE SEEDERS COMBINED		3 row 1 row	1	W WALKING TYPE PLANTERS	Rotating pan with plow Rotating pan with plow Potating plate	Rotating pan with plow (a) Stor wheel & contains	Star wheel & agitator (a)	Enocker (a) Rotating pan with plow	Rotating pan with plow Rotating pan with plow Rotating pan with plow	ing pan with plow	Rotating pen with plow Rotating plate with deflector	Star wheel	(a) Rotating agitator Vibrator	Rotating flat plate Rotating flat plate Vibrating open-end pan	(a) Rotating pan with plow Rotating pan with plow Rotating plate	(a) Rotating plate Finger wheel (a)	Revolving blade, top delivery (a) Rotating pan with plow
9. THREE	General type of Machine Si	2 horse 3 land 2 horse 3 land 2 horse 3	mounted 2 horse 3	1 horse 3		10. SMALL	l rear wheel, hand	e wises. Garden tractor attachment I front wheel, hand or horse I front, 1 resr wheel, hand oper		11. ONE-ROW	front wheel Rotat		-	2	2 wheel Rotat 2 wheel Br.beam Botat 1 rear wheel, Sw.beam Bota	Disc Attachment (a)		shoe only front wheel Star			front wheel (a) front wheel Rotat front wheel Rotat rear wheel Rotat	c c	
	Trade name or Generated No.	173 rter 13844	MA-57 Tractor Ontario B Cart, So-rite Cart,	\$ 15			Planet Jr. 320 front, Iron King 45 front,				Shawnee & Dixie 1 Bobtail 1	lng 53	1 E	62-R & 62-S 1 148 Rop. on S51 Pl. 2		(for planters 12, 16, & 41 D	John Deere 108	srs attach.	Gentt 1 1 Gentt 4 1	McC-Deering 1 McC-Deering 1 McC-D. 163 & 165 1	125 & 120 1 1 6 F 120 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Blackhawk 160 1 Short Boy 63 1 011ver 64 & 7 1 011ver 51,52,54 1	Eclipse King of Gorn 7 1 Ledbetter 20 1
	Manufacturer	Enreka Mower Co. Farquahar, A.B.; Co., Ltd. Eaines, W. D.	International Harvester Co. Ontario Drill Co. Pender Mg. & Supply Co.	Todd Co., Inc.							Avery, B.F. & Sons, Inc.	Plow Works David Mfs. Works	1d Co.	do do Cole Mar. Co.		do do Cutaway Harrow Co.	Deere & Mansur Works	s Mower Co.	dentt Mrg. Co. do	rvester Co.	Massey-Harris Co. Minnapolis-Moline Power Imp. Co. Chic Cultivator Co.	do r Farm Equipment Sales Co. do	Sargent Osgood & Roundy Co. Eclipse do King of Corn F Southern Plow Co. (Dallas, Tex.) Ledbetter 20

- 5
E.
1
-
A TIPA CHAR
E
_
199
-
PERTITIES
- 65
8-
1
-
E-
O:
. z
- 60
WT TH
Day
Ė
- 2
- 15
- post
20
pc
-
TSPERS
-
AND
h
PLANTERS
Ori
33
7
12
- 23
Bard
-
84
P.
100
TYPE
TYPE
TYPE
-
-
-
-
-
RIDING TYPE
-
-
RIDING
-
RIDING
TWO-WHEEL RIDING
TWO-WHEEL RIDING
TWO-WHEEL RIDING
TWO-WHEEL RIDING
TWO-WHEEL RIDING
TWO-WHEEL RIDING
TWO-WHEEL RIDING
TWO-WHEEL RIDING
TWO-WHEEL RIDING
TWO-WHEEL RIDING
TWO-WHEEL RIDING
TWO-WHEEL RIDING
RIDING
TWO-WHEEL RIDING
RIGID-FRAME TWO-WEREL RIDING
RIGID-FRAME TWO-WEREL RIDING
RIGID-FRAME TWO-WEREL RIDING
TWO-WHEEL RIDING
RIGID-FRAME TWO-WEREL RIDING
RIGID-FRAME TWO-WEREL RIDING
RIGID-FRAME TWO-WEREL RIDING

Avery, B.F., & Sons Co. Case, J.I. Co Decre and Mansur Works Jacquidar, A.B., Co., Ltd.	and Garage	me,chine	OI FORE	for illser dispenser	Lbs/A	Conditions	Placement of the fart liver in the sail
Case, J. L. Co Deere and Mansur Works Farythar, A.B., Co., Ltd., do.	Mr Bill	Mides or 11st furner	TA 2 may V	Withouting open-and year	101		
Parythar, A.B., Co., Ltd., do.	45 att. on 635	Lister, tractor type		(a)	(a)	Com corn, etc.	Drilled, at one side of seed furrow
Farquhar, A.B., Co., Ltd.	J Deere 111	Ridge or list furrow	FOW	Rotating pan with ples	En 20 200	-	All he selder will above
2	Iron Age 481 Iron Age 491	Ridge or level	1 & 2 row R	Endless belt	Tide range	Cotton, etc.	2º bend, 2.5° to each side - Depth
Propositional Removation As	Farquhar	Ridge or level	2 row	Finger wheel	(a)	Corn, etc.	Drilled, (a)
Eslly, G.A., Flow Co.	Davy Grockett	Ridge or 11st furror	Z row	Rejecting pen with plow	(a) 500	Cotton corn, etc.	
	D-P 7	Ridge or 11 t farrow	I COW HO	Hotating flat plate	(8)	Cotton corn etc.	Drilled, sides and above seed.
Conther Farm Equip. Seles Co. Southern Plow Co. (Dellas,T)	26 Ledbetter 8	Ridge or Mist furrow Ridge or list furrow	1 row (a	(a) Rotating pen with plow	(a) 50 to 500	COFB.	sides; deposited shead of seed
	The state of the s		1		1		mone to morn man reader feature
		13. TWO-ROW ADJUSTABLE	£.	RUNNER-FRAME PLANTERS (corn belt type)		WITH FERTILIZER AT	ATTACHMENT - HORSE DRAWE
Avery, B.F., & Sons Co.	Sure drop	Rotating pan with	plow	corn,	H111 or	drill, sides above seed	bed plain divider
	Blount	(B)	(a)	Corn, beans, etc.		Drill, in furrow above seed Drilled, in furrow above seed	
Gase, J. I. Co.	Bradley 497	Star wheel and agi	tator (a)	goo Corn, beans,		irill, band 6" long	tractly above seed
do	34 Att. on 41 Pl.		plow 25		Dril	bend	ong, 1" to each side a above seed evel
do do	56 Att., 42 & 42P, Pl.	(a)	33	corn,	-	band each side of row band each sire of row	FOW
000	7 Act. on 42p	-	8	Co ton, corn,	+	Hill or drill, band each s de of row	
Login & Mangur Works do Engineering Metal Frod. Oorp	Jose 43;339 Jose 436;919 Chambers, runner, only	Rotating pan with noly	plow 75	to 700 Corn, peans etc. to 700 Corn, peas, etc. Cotton, corn, etc.		Hillor dril., l' bend l4 long, l' Drilled, l' bend " to each side Hillor drill, l' bend S' lone. l'	8, 1" to each mide; #" above seed level mide #" mabove seed level c.1" to done mide. 1%" helium seed level
Enreka Mower Co. Farm Tools, Inc. International Harvester Co.	Eureks 4 Eayes 14 McC-Dearing 100 Sr	Star wheel (a) Retating one with	115 (a)	115 to 800 Corn, beans, etc. (a) Corn, beans, etc.		Filled bend a each side of row Hill. or drill, short bend at side of hill rate of hill bend for the state of hill rate of hill bend for the state of hills bend for the state of hill bend for hill bend for the state of hill bend for the state of hill bend for hil	
do Madison Plow Co.	P& 0 20 & 34 Madison 19, Victor 20	8	7	Corn, beans,		band es	DAANS TO OFFICE STREET
Mindespolis-Moline P. Imp Co	Single boot Moline 25 & 26	Rotating flat plate Botating pan with pl	AO1	Corn, beans,	E211 or E113 or		mond of long, 14" to each side, adj. seed level to surface to slow, adj. from seed to surface to slow, directly above adj. from seed to surface to slow, and being hill
Obio Cultivator Co.	Blackhawk (several Oliver 98		plow (a)	Cotton, corn,	. H111 or	drill, (a) drill, band at each	each side above seed level
Sargent Osgood & Roundy Co.	Rock Island 1 & 555 Eclipse		livery 50 to	600 Corn. beans	. E111 or	1s bend band 6s	Rs. 2" to each side, 1" above seed level
		1		/	1		
		14. 0	14. DISTRIBUTORS	COMBINED WITH TRACTOR	R FIANTERS	THO CR MORE-ROWS	
Case, J.I. Co. 49 Att. on GC	CB4CR planterfract	49 Att. on CCB4CR planterfractor mounted, motor lift	#	25	900	etc	11" long, 1" to
Desre & Mansur Works		Tractor mounted Tractor drawn	TOB TOB	-	to 500 Cottor	c Hill	Drilled, band l" wide, 2h" to one side, 7" deep Hill or drill, band each si e sligh ly above s ed level
do Ferguher, A.B., Co. Ltd.	#	Tractor mounted	3 row 2,3,4 row	plow	1	tc Hill	band each
International Harvester Co.	Parmell F & FA	& FA Tractor mounted	# 6 N C				
8	100 B	Tractor mounted frac or drawn	20 00	Rotating agitator 200 (a)	200 to 900 Cotton, 0 to 700 Cotton,	corn, etc	band at each bend at e e
do do de la mara aquip seles co	Row crop Tractor	Tractor mounted lister type	2 & 4 row		Cotton	corn. etc	ed, band either each side or above seed

Bates in Crops or conditions for Placement of the fertilizer in the soil		Sugar beets, beens, etc Drilled, band each side above seed level Sugar beets, beens, etc Drilled, in furrow with seed 80 Sugar beets, beens, etc Drilled, in furrow with seed	Sugar beets, beans, etc Sugar beets, beans, etc	Sugar beets, beans, etc Drilled either above or at side of seed
Rates 1 Lbs/A	25 to 800 60 to 780 (a)	(a) 50 to 524 72 to 580	50 to 1000 60 to 290	dn 05
General type of fertiliser dispenser				row, tractor 6 row (a) 50
Stze		###	##	6 row
rade name or General type of machine	43 Attach.on Piractor mounted, motor lift Gase FB J Deere 64 Planter-cultivator, 2 horse		2 horse 2 horse	Drill or Check-row, tractor 6 row (a)
Trade name or Catalog No.	43 Attach.on F Case FB J Deere 64	J Deere 22 McC-D. 6 & 7 Woline DF-6	Thomas Oliver 9	MAZ
Manufacturer	Case, J.I., Co. do Deere & Mansur Works	do International Earwester Co. McC-D. 6 & 7 Minneap lis-Woline P Imp. Co. Moline DF-6	Ohio Cultivator Co. Thomas Oliver Farm Equip Sales Co. Oliver 9	Minneapolis-Moline P Imp Co MM

PLANTERS	
POTATO	
WITH	
COMBINED	
DISTRIBUTORS	
16.	

	Potatoes Drilled, mixed with soil at sides of row	Potatoes Drilled, mixed with soil 3" to one side	atoes Drilled, shead of seed shoe - mixed in row	Potatoes Drilled, shead of seed shoe - mixed in row	Potatoes Drilled, in band at each side of row	satoes Drilled, 2" band, 2" to each side, depth adj.	Pota' es Drilled, 2" band, 2" to each side, depth adj.	Potatoes Drilled, 2" band, 2" to each side, depth adj.	Potatoes Drilled, band each side of row	Potatoes Drilled, (a)	atoes Drilled, mixed with soil at each side & above	250 to 1800 Potatoes Drilled, 2" band, 3" to each side, adj. level	to 12 above seed	Syracuse Chilled Flow Co (Deere) John Deere Ficker wheel, horse & tractor 1 & 2 row Botating plate & deflector 100 to \$400 Potatoes Drilled, band either at each side or in row
/	(a) Pot	(a) Pot	200 to 1500 Potatoes	(a) Pot	(a) Pot	300 to 3750 Potatoes	300 to 3750 Pot	150 to 3000 Pot	100 to 1800 Pot	(a) Pot	0 to 3000 Pot	250 to 1800 Pot		100 to 3400 Pot
	Vertical paddle wheel	Star wheel & agitator	Star wheel	(8)	Twin screw	Endless belt	Endless belt	Rotating plate with plow	Star wheel	Endless link chain	Double-fan paddle	Rotating plate		Rotating plate & deflector
	1 & 2 row	1 row	1 & 2 row	el & 2 row	1 1 & 2 row	1 to 4 row	1 to 4 row	1 & 2 row	1 & 2 row	y l per row	1 & 2 row	1 row		1 & 2 row
	3 Picker wheel, horse drawn 1 & 2 row Vertical paddle wheel	Endless conveyor, horse drawn	Cup chain, horse drawn	Picker wheel, also bucket type 1 & 2 row	Picker wheel, horse drawn	Assisted norse, tractor 1 to 4 row	Picker wheel, horse, tractor 1 to 4 row	Picker wheel, horse & tractor 1 & 2 row	Brans Superior Picker wheel, horse & tractor 1 & 2 row	Fertilizer hopper only	Picker wheel, horse &	Picker wheel, horse & tractor 1		Picker wheel, horse & tractor
	Aspinwall 3	B-Schofield 5	Champion 22	Star	Eureka 26	Iron Age	Iron Age	McC-Deering	Evans Superior	Morth Star	Oliver 5 & 55	Aurora		re) John Deere
	Aspinwall-Watson Co.	Bradley, David, Mfg. Works	Champion Corporation	Ohio Cultivator Co.	Eureka Mower Co.	Farquhar, A.B., Co., Ltd.	do	International Harvester Co.	LeRoy Plow Co.	North Star Mfg. Co.	Oliver Farm Equip Sales Co.	Peek, S.H., & Sons		Syracuse Chilled Plow Co (Dee

17. DISTRIBUTORS COMBINED WITH GRAIN DRILLS

මර මනිස් 	or condition for Flacement of the fertiliser in the soil		theco, etc. Drill d, 2" band M to 6" either to one or each side and band over row, add to 3" depth tobeco, etc. Drilled, in row - deposited a furrow about of the bear tobeco, etc. Drilled, band 19 wide, 5" to each side and mixed tobeco, etc. Drilled, band 19 wide, 5" to each side and mixed in cent r. depth add. 2 to 5"		crops, flat land Band or bdcast, 12-22" strip, crops, flat land Band or bdcast, 12-22" strip, crops Two bands thru adj, tubes ahe crops Band either side of row in farous		Gener beeks, see Band each side of row in furrows, position adj. Corn, similar row crops Rand each side of row in furrows, position adj. Cotton etc Band at side of row in furrows, position adj. Bang erops (a) Rand at side of row in furrows, position adj. Raw crops (a) Rand at side of row in furrows, position adj. Raw crops (a) Rand at side of row in furrows, position adj. Raw crops (a) Anna crops (b) Rand anna crops (c) Anna crops	Either 2 bands or mixed with soli; 2 rows a Mand each side of row in furrows, position te. beams, etc Each side of row in furrows, nosition	0		General Bend in each disc furrow	Vegetable crops, etc Band 1 to 3" wide in furrow 1 to 1" demn	Band in plow furrow		Veneral, lime Education surface General, lime Education surface General, lime Education surface General, lime Education surface	neral, lime	Leans, etc garden hose Edcast on surface with water Leans, etc
	Grops	Tomatoes, Tomatoes, Tomatoes, Foratoes, Tomatoes,	Tomatoes, Tomatoes,	Subst	200 to 2000 Row 200 to 2000 Row (a) Row (a) Row (b) Row	(a) 25 to 800 (a)		50 to 500 Row 0 to 1000 Row 50 to 400 Sug			(a) Gen	100 to 1500 Veg			500- 16000 Gen (a) Gen		1
LABTERS	Estes in Lbs/A	5555555	25 to 600 25 to 600 100 to 1500	FORS AND HARROWS	Encker Encker Thresing 2-stress pan (Boating pan with plow ((a)	h plow	pan with plow	low		HARROWS			SPREADERS			THE	-
WITH TRAFSPLA	of fertiliser	(e) Endless bolt Descending sursper & feed wheel Soteting flat plate (e)	3 deflectors 3 deflectors 5 deflectors	WITH CULTIVATORS		(a) Rotating pl	Rotating pa Rotating pa (a) (a)	Rotating agitator Rotating pan Rot pan with adj.	Rotating agitator (a) Radiess link chain (b) (a) (b) Vibrating pan	WITH DISC RA	ft (a)	WITH PLOWS	TS FOR MANTER	Endless web & 4 disc spreaders	Endless web & 2 plate-fan scatterers Endless web & rotating wing catterers Endless web & 2 plate-fan scatterers	Endless web & 2 plate-fan scatterers Endless web & 2 plate-fan scatterers Fring ATEACHMENTS FOR WATERING AN	Soluble fertiliser cartridge Vacuum syphon Pumped into water line
DES COMBINED	General type of fertiliser dispenser	(a) Enclose belt Descending scraper (a) Entating flat plate (a)	Notating plate, 3 deflectors Motating plate, 3 deflectors Notating plate, 3 deflectors	COMBINED	2786 1 70W 2786 1 70W 1 07 2 70W 5786 1 70W	20 10 10	2 horse 2 row 2 horse 1 row 1 horse 1 row rator	orse l row orse 2 row	ttors 1 row (a)	COMBINED	7 to 10 ft	8 4	_ ~	dless web & 4	dless web & 2	diess web & 2 diess web & 2 we Afficient	(a) Soluble (a) Yacuum (a) Pumped
• DISTRIBUTO	Stre	1 row 1 row 1 row 1 row 1 row	1 row Bo 1 row Bo	DISTRIBUTORS	I front wheel, I horse 2 front wheels, I horse plow stock extech. I filling wheel, cult. I filling wheel, 2 horse mounted		y culti	plows 1 horse 2 horse 2 horse	ivator heel cultivators 2 horse 1 l horse	20. DISTRIBUTORS		21. DISTRIBUTORS	22. DISTRIBUTING		12 12 (a)	(a) DISTRIB	sontainer mixer
18.	General type of machine	Mennal Blannal Bannal Gon ever mech. setting	Merruel Merruel	19.	Walking, 1 front wheel, 1 horse Walking, 2 front wheels, 1 horse Walking, plow stock attach. Walking & riding,wheel,cult. Walking & riding,wheel,2 horse	44 Att on Gult. Tractor Mounted 32 Att & Cult. Riding; wheal, 2 hors 51 Att C Cult Tractor mounted T Deere 64 Riding wheal	Tractor mounted Walking, harrow	Walking cult. & plows Riding, wheel, Riding, 3 wheel	Tractor mounted For riding culti- buent only for wh Hiding, wheel (a) Falling, 2 wheel	20	Broadcast drill	21. DIS	Z. 22.	Line attachment	Line attachment Line attachment Line attachment	Lime attachment Lime attachment 23.	Hose norrie Hozele & liquid container Barrel, pump and mixer
	Trade name or Catalog Ho.	Tiger & Dayton I Iron Age 5003 I Iron Age 5000 I Bardlton R Conv. Bolland Conv.	Massey-Earris 3 Manual Mew Idea Manual		Planet Jr 230 Planet Jr 230 Vibrator Attachment Blount 53 Att/P15 Cmit	44 Att on Gult. 32 Att/ K Cult. 51 Att/ CC Cult. J Deere 64	0 4	Fowler Hew 4 McC-Deering 3C	Acce attach. For riding cultwater Morth Star attachment only for wheel cul Ohio (a) (a) Walling, wheel 2 horse Todd 5 Walling, 2 wheel		Peoria	et Jr 215		E CO	C-D. 44	Superior New Idea	Plantilizor H Hydro mixing H
	Menufacturer	Co. Led.			.,Inc.		. 8	Ca. Eart. Co.	8. 0.			å	1	-	International Bary, 00. Mc Litchial Mg. Co. M	a Equip. Sales Co	
	Menut	Empire Flow Co. Farquhar, A.B., Co. Led. Co. Email ton Mg. Co. Esliand Celery Fl. Co. Esdison Plow Co.	Massay-Barris Co do New Idea, Inc.		Allen. I., & Co do Avery, B.F. & Son and Down Flow Forks Case, J.I., Co.	do do do Deere & Mansur Works	do do Fertiliser Fresh Flo F	Harriman Mfg. International	do Judeon Mrg. Co. Borth Star Mrg. Co. Chio Cultivar Farm Equipme		Fars fools, Inc.	Allen, 8-L. & Co., In	American o	Bloom Mrg. Co.	Internation Litchfield	Oliver farm E Now idea inc.	Electric Sprayit Co. do McClain Bros. Co.

ADDRESSES OF THE MANUFACTURERS OF THE FERTILIZER DISTRIBUTING MACRINES LISTED

Acer & Whedon, Inc. A-C Manufacturing Co., Inc. Acmeline Manufacturing Co. Allen, S.L., & Co., Inc. Aspinwall-Watson Co.		ALTERNATION OF THE PARTY OF THE		MANORACIONEN	
A-C Menufacturing Co., Inc. Acmeline Manufacturing Co. Allen, S.L., & Co., Inc. Aspinwell Watson Co.	Medina, N.Y.	Gentt Menufacturing Co.	Macon. Ga.	Ontario Drill Co	Est Rochester. M.Y.
Acmeline Manufacturing Co. Allen, S.L., & Co., Inc. Aspinwall-Watson Co.	Pontiac, Ill.	Gilson Bolens Mfg. Co.	Fort Washington, Wis.		
Allen, S.L., & Co., Inc. Aspinwall-Watson Co.	Traverse City, Mich.	Goodell Co.	Antrim, N. H.	Peek, S.H., & Sons	East Aurora, N.T.
Aspinwall-Watson Co.	Philadelphia, Pa.	Greenville Manufacturing Co	Greenville. Ohio	Pender Mfg. & Supply Co.	Raleigh, N.C.
	Houlton, Maine			Peoria Steel & Wire Co.	Peorfa, Ill.
American Cyanamid Co.	New York City	Hamilton Manufacturing Co.	Hamilton. Mich.	Plant Food Appliance Co.	Maudaca. Wis.
Avery, B.F., & Sons	Louisville, Ky.	Hampshire Implement Co.	Hatfleld, Mess.	Portable Elevator Mfg. Co.	Bloomington, Ill.
		Haines, W.D.	Haddonfleld, W.J.		
Bloom Manufacturing Co.	Mashua, Iowa	Hardy & Newsom, Inc.	La Grance. N.C.	Red Cross Manufacturing Co.	Bluffton. Ind.
Blount Plow Works	Bvansville, Ind.	Harrington Mfg. Co.	Lewiston N.C.	Rock Island Plow Co.	Rock Island, Ill.
Blue, John	Laurinburg, N.C.	Harriman Mfg. Co. (Oliver)	Harriman Tenn	Root Manufacturing Co.	Cleveland Ohio
Bradley, David, Mfg. Works	Bradley, Ill.		Worth Chicago, Ill.	Ruhm Phosphate & Chemical Co	Mount Pleagant Tenn.
Browning & Son	Utica, N.I.	Holden Co. Inc.	Peoria, Ill.		
Burch Corporation	Crestline, Ohio	Holland Celery Planter Co.	Holland, Mich.	Salem Tool Co.	Salem. Ohio
				Sergent Osgood & Roundy Co.	Randolph. Vt.
Caledonia Bean Harvester Works	Caledonia, M.Y.	International Harvester Co.	Chicago, Ill.	Scheu Products Co., Ltd.	Los Angeles, Calif.
Camp, E.N., & Sons, Co.	Moreland, Ga.			Sears Roebuck & Co.	Philadelphia. Pa.
Campbell-Hausfeld Co.	Harrison, Ohio	Judson Manufacturing Co.	Philadelphia, Ps.	Self Manufacturing Co.	Twin Falls, Idaho
Case, J.I., Co.	Racine, Wis.			Smith Agril, Chemical Co.	Columbus, Ohto
Champion Corporation	Hammond, Ind.	Kelley, G.A., Plow Co.	Longview. Texas	Southern Plow Co.	Columbus. Ge.
Cole Manufacturing Co.	Charlotte, N.C.	King Drill Mfg. Co.	Beatrice City, Nebr.	Southern Plow Co.	Dallas, Texas
Covington, W.F.	Headland, Ala.	King Plow Co.	Atlanta, Ga.	Standard Equipment Co.	Cedar Rapids. Iowa.
Crown Manufacturing Co.	Phelps, N.Y.			Swift & Co.	1
Cutaway Harrow Co.	Higganum, Conn.	LeRoy Plow Co.	LeRoy. N.Y.	Syracuse Chilled Plow Co (Deere)	Syracuse.
Cyclone Seeder Co.	Urbana, Ind.	Lilliston Implement Co.	Albany. Ge.		
		Litchfield Mfg. Co.	Waterloo, Iowa	Tennessee Corp.	New York City
Deere & Mansur Works	Moline, Ill.			Thompson, O.E., & Sons	Tosilanti, Mich.
		Madison Plow Co.	Madison, Wis		Norfolk, Va.
Engle Machine Co.		Marvel Seeder Co., Inc.	Winnespolfs, Minn.		
Eastern States Farmers Exchange		Massey-Harris Co.	Racine, Wis.	Van Brunt Mfg. Co. (Deere)	Horicon, Wis.
Eastern Steel Products Ltd.	Preston, Ontario, Canada	Masters Planter Co., Inc.	Chicago, Ill.	Vex Corporarion	Chicago, Ill.
Electric Spraylt Co.	South Bend, Ind.	McClain Bros.	Canton, Ohio		
Ellis Keystone Agri. Works	Pottstown, Pa.	McKay, John A., Mfg. Co.	Dann, N.C.	Wade, R.M., & Co.	Portland, Ore.
Empire Plow Co.	Cleveland, Ohio	Meronek Manufacturing Co.	Stevens Point, Wis.	Waterman, Adolph C.	Indianapolis, Ind.
Engineering Metal Products Corp		Minnespolis-Moline Power Imp. Co	100	Wayne Agricultural Works Inc.	Goldsboro, N.C.
Eureka Mower Co.				White's. S.R. Sons. Inc.	Norfolk, Va.
		New Idea, Inc	Coldwater, Ohio	Whitehurst, R.W., Mfg. Corp.	Morfolk, Va.
Farm Tools. Inc.	Mansfleld, Ohio	New Way Spreader Co.	Mansfield, Ill.		
Farquhar, A.B., Co. Ltd	Tork, Pa.	North Star Mfg Co .	Anoka, Minn.		
Fertilizer Attachment Co.	Zeeland, Mich.				
Foote, J.B., Foundry Co.	Fredericktown, Ohio	Ohio Cultivator Co.	Bellevue, Ohio		
Fresh Flo Pump & Mrs. Co.	Indianapolis, Ind.	Oliver Farm Equipment Sales Co.	Springfield. Ohto		

